COPY

```
KK      KK  EEEEEEEEEE  YY      YY   SSSSSSSS
KK      KK  EEEEEEEEEE  YY      YY   SSSSSSSS
KK      KK  EE          YY      YY  SS
KK      KK  EE          YY      YY  SS
KK    KK    EE            YY  YY    SS
KK    KK    EE            YY  YY    SS
KKKKK       EEEEEEEE        YY        SSSSSS
KKKKK       EEEEEEEE        YY        SSSSSS
KK    KK    EE             YY               SS
KK    KK    EE             YY               SS
KK      KK  EE             YY               SS
KK      KK  EE             YY               SS      ....
KK      KK  EEEEEEEEEE     YY      SSSSSSSS         ....
KK      KK  EEEEEEEEEE     YY      SSSSSSSS         ....
                                                   ....


LL          IIIIII   SSSSSSSS
LL          IIIIII   SSSSSSSS
LL            II    SS
LL            II    SS
LL            II    SS
LL            II    SS
LL            II       SSSSSS
LL            II       SSSSSS
LL            II            SS
LL            II            SS
LL            II            SS
LL            II            SS
LLLLLLLLL   IIIIII   SSSSSSSS
LLLLLLLLL   IIIIII   SSSSSSSS
```

```
   1    0001   0  MODULE KEYS (                                            ! COPY command qualifier keywords
   2    0002   0                  IDENT = 'V04-000'
   3    0003   0                  ) =
   4    0004   1  BEGIN
   5    0005   1
   6    0006   1  !
   7    0007   1  !********************************************************************
   8    0008   1  !*                                                                  *
   9    0009   1  !*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                         *
  10    0010   1  !*  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.          *
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  18    0018   1  !*  TRANSFERRED.                                                    *
  19    0019   1  !*                                                                  *
  20    0020   1  !*  THE INFORMATION IN THIS SOFTWARE IS  SUBJECT TO CHANGE WITHOUT NOTICE  *
  21    0021   1  !*  AND  SHOULD  NOT  BE  CONSTRUED AS  A COMMITMENT BY DIGITAL EQUIPMENT  *
  22    0022   1  !*  CORPORATION.                                                    *
  23    0023   1  !*                                                                  *
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  25    0025   1  !*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.         *
  26    0026   1  !*                                                                  *
  27    0027   1  !*                                                                  *
  28    0028   1  !********************************************************************
  29    0029   1
  30    0030   1
  31    0031   1  !++
  32    0032   1  ! FACILITY:  System Library
  33    0033   1  !
  34    0034   1  ! ABSTRACT:
  35    0035   1  !
  36    0036   1  !      This module consists of keyword tables which define ALIGNMENT
  37    0037   1  !      and PROTECTION qualifier keywords and keyword values.
  38    0038   1  !
  39    0039   1  ! ENVIRONMENT:
  40    0040   1  !
  41    0041   1  ! AUTHOR: Ward Clark,  CREATION DATE:  7 November 1977
  42    0042   1  !
  43    0043   1  ! Modified:      C. Peters, 18 April 1978
  44    0044   1  !
  45    0045   1  !      003     TMH0002          T. Halvorsen     07-Jan-1980
  46    0046   1  !              Remove LIBMAC and VMSMAC requires as the $LIB defns
  47    0047   1  !              are now supplied by STARLET.L32
  48    0048   1  !
  49    0049   1  !      002     TMH0001          T. Halvorsen     17-Nov-1979
  50    0050   1  !              Change LIBRARY VMSMAC.L32 to REQUIRE VMSMAC.REQ.
  51    0051   1  !
  52    0052   1  ! 01   18-04-78        C. Peters        Change INCLUDE declarations to be suitable for VMS native compiles.
  53    0053   1  !
  54    0054   1  !--
```

```
 56        0055   1   !
 57        0056   1   ! INCLUDE FILES:
 58        0057   1   !
 59        0058   1
 60        0059   1   LIBRARY   'SYS$LIBRARY:STARLET.L32';                      ! VAX/VMS macros and literals
 61        0060   1
 62        0061   1   !
 63        0062   1   ! MACROS:
 64        0063   1   !
 65        0064   1
 66        0065   1   MACRO
 67        0066   1       BIT_LOCATION(L,B,S,X) = B %;                          ! Extracts bit displacement from a structure definit
 68        0067   1
 69        0068   1   !
 70        0069   1   ! EQUATED SYMBOLS:
 71        0070   1   !
 72        0071   1
 73        0072   1   LITERAL
 74        0073   1       YES = 1,                                             ! "yes" indicator
 75        0074   1       NO = 0;                                              ! "no" indicator
 76        0075   1
 77        0076   1   !
 78        0077   1   ! OWN STORAGE:
 79        0078   1   !
 80        0079   1
 81        0080   1   GLOBAL
 82      P 0081   1       COPY$ALIGN_KEYS : $LIB_KEY_TABLE(                     ! ALIGNMENT qualifier keywords:
 83      P 0082   1                   ( CYLINDER, BYTE(                         !   Cylinder alignment -
 84      P 0083   1                               XAB$C_CYL,                    !     XAB$B_ALN code
 85      P 0084   1                               -1,                          !     XAB$B_AOP "and" mask
 86      P 0085   1                               YES,                         !     keyword value permitted
 87      P 0086   1                               NO ) ),                      !     keyword value not required
 88      P 0087   1                   ( LOGICAL, BYTE(                          !   Logical block alignment -
 89      P 0088   1                               XAB$C_LBN,                    !     XAB$B_ALN code
 90      P 0089   1                               -1,                          !     XAB$B_AOP "and" mask
 91      P 0090   1                               YES,                         !     keyword value permitted
 92      P 0091   1                               YES ) ),                      !     keyword value required
 93      P 0092   1                   ( APPROXIMATE, BYTE(                      !   Approximate alignment satisfactory -
 94      P 0093   1                               0,                           !     XAB$B_ALN code - none
 95      P 0094   1                               -1 - XAB$M_HRD,               !     XAB$B_AOP "and" mask
 96      P 0095   1                               NO,                          !     no keyword value permitted
 97      P 0096   1                               NO ) )),                      !     no keyword value required
 98      0097   1
 99      P 0098   1       COPY$PROT_KEYS: $LIB_KEY_TABLE(                       ! PROTECTION qualifier keywords:
100      P 0099   1                   ( SYSTEM, BIT_LOCATION(XAB$V_SYS) ),      !   SYSTEM
101      P 0100   1                   ( OWNER, BIT_LOCATION(XAB$V_OWN) ),       !   OWNER
102      P 0101   1                   ( GROUP, BIT_LOCATION(XAB$V_GRP) ),       !   GROUP
103        0102   1                   ( WORLD, BIT_LOCATION(XAB$V_WLD) ) ),     !   WORLD
104        0103   1
105      P 0104   1       COPY$PROT_VALUE : $LIB_KEY_TABLE(                     ! PROTECTION qualifier keyword values:
106      P 0105   1                   ( R, BIT_LOCATION(XAB$V_NOREAD) ),        !   Read
107      P 0106   1                   ( W, BIT_LOCATION(XAB$V_NOWRITE) ),       !   Write
108      P 0107   1                   ( E, BIT_LOCATION(XAB$V_NOEXE) ),         !   Execute
109        0108   1                   ( D, BIT_LOCATION(XAB$V_NODEL) ) );       !   Delete
110        0109   1
111        0110   1   !
112        0111   1   ! EXTERNAL REFERENCES:
```

```
;  113        0112  1 !
;  114        0113  1
;  115        0114  1 END
;  116        0115  0 ELUDOM


                                        .TITLE   KEYS
                                        .IDENT   \V04-000\

                                        .PSECT   $SPLIT$,NOWRT,NOEXE,2

      00  00  00  52  45  44  4E  49  4C  59  43  08  00000 P.AAA:  .ASCII  <8>\CYLINDER\<0><0><0>
                              4C  41  43  49  47  4F  4C  07  0000C P.AAB:  .ASCII  <7>\LOGICAL\
      45  54  41  4D  49  58  4F  52  50  50  41  0B  00014 P.AAC:  .ASCII  <11>\APPROXIMATE\
                              00  4D  45  54  53  59  53  06  00020 P.AAD:  .ASCII  <6>\SYSTEM\<0>
                              00  00  52  45  4E  57  4F  05  00028 P.AAE:  .ASCII  <5>\OWNER\<0><0>
                              00  00  50  55  4F  52  47  05  00030 P.AAF:  .ASCII  <5>\GROUP\<0><0>
                              00  00  44  4C  52  4F  57  05  00038 P.AAG:  .ASCII  <5>\WORLD\<0><0>
                                      00  00  52  01  00040 P.AAH:  .ASCII  <1>\R\<0><0>
                                      00  00  57  01  00044 P.AAI:  .ASCII  <1>\W\<0><0>
                                      00  00  45  01  00048 P.AAJ:  .ASCII  <1>\E\<0><0>
                                      00  00  44  01  0004C P.AAK:  .ASCII  <1>\D\<0><0>

                                        .PSECT   $GLOBAL$,NOEXE,2

                     00000006  00000 COPY$ALIGN_KEYS::
                                              .LONG   6
                     00000000' 00004          .ADDRESS P.AAA
         00  01  FF  01  00008                .BYTE   1, -1, 1, 0
                     00000000' 0000C          .ADDRESS P.AAB
         01  01  FF  02  00010                .BYTE   2, -1, 1, 1
                     00000000' 00014          .ADDRESS P.AAC
         00  00  FE  00  00018                .BYTE   0, -2, 0, 0
                     00000008  0001C COPY$PROT_KEYS::
                                              .LONG   8
                     00000000' 00020          .ADDRESS P.AAD
                     00000000  00024          .LONG   0
                     00000000' 00028          .ADDRESS P.AAE
                     00000004  0002C          .LONG   4
                     00000000' 00030          .ADDRESS P.AAF
                     00000008  00034          .LONG   8
                     00000000' 00038          .ADDRESS P.AAG
                     0000000C  0003C          .LONG   12
                     00000008  00040 COPY$PROT_VALUE::
                                              .LONG   8
                     00000000' 00044          .ADDRESS P.AAH
                     00000000  00048          .LONG   0
                     00000000' 0004C          .ADDRESS P.AAI
                     00000001  00050          .LONG   1
                     00000000' 00054          .ADDRESS P.AAJ
                     00000002  00058          .LONG   2
                     00000000' 0005C          .ADDRESS P.AAK
                     00000003  00060          .LONG   3
```

## PSECT SUMMARY

| Name | Bytes | Attributes |
|------|-------|-----------|
| $PLIT$ | 80 | NOVEC,NOWRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2) |
| $GLOBAL$ | 100 | NOVEC, WRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2) |

## Library Statistics

| File | -------- Symbols -------- | | | Pages Mapped | Processing Time |
|------|-------|--------|---------|--------|---------|
| | Total | Loaded | Percent | | |
| _$255$DUA28:[SYSLIB]STARLET.L32;1 | 9776 | 14 | 0 | 581 | 00:01.0 |

## COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS$:KEYS/OBJ=OBJ$:KEYS MSRC$:KEYS/UPDATE=(ENH$:KEYS)

```
Size:          0 code + 180 data bytes
Run Time:        00:03.5
Elapsed Time:    00:12.0
Lines/CPU Min:   1954
Lexemes/CPU-Min: 22708
Memory Used:  35 pages
Compilation Complete
```

CRFOR
LIS

CRFMEM
LIS

CRFMACROS
MAR

CLITABDEF
SDL

FILINPUT
LIS

KEYS
LIS

CRFFRVEC
LIS

DCLDEF
MDL

CRFMDL
MDL

CREF
LIS

CRFERRMSG
LIS

CRF
SDL

CRF

CRFSUB
LIS

FILOUTPUT
LIS

CRFSHR
MAP

CRFGLOBAL
LIS

CRFMAC
REQ

DCL

DCL
MAP